

In the Claims:

Please substitute the following claims:

Claim 1 (Amended):

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D1

An isolated polynucleotide sequence obtained from *Chlamydia trachomatis* comprising the polynucleotide sequence of SEQ ID NO. 1083, SEQ ID NO. 1089, SEQ ID NO. 1091, SEQ ID NO. 1095, SEQ ID NO. 1096, SEQ ID NO. 1105, SEQ ID NO. 1117, SEQ ID NO. 1140, SEQ ID NO. 1159, or SEQ ID NO. 1167; or

an isolated polynucleotide sequence having at least 80% homology to SEQ ID NO. 1083, SEQ ID NO. 1091, SEQ ID NO. 1095, SEQ ID NO. 1096, SEQ ID NO. 1105, SEQ ID NO. 1117, SEQ ID NO. 1140, SEQ ID NO. 1159, or SEQ ID NO. 1167; or

an isolated polynucleotide sequence having at least 99.9% homology to SEQ ID NO. 1089, SEQ ID NO. 1083, SEQ ID NO. 1091, SEQ ID NO. 1095, SEQ ID NO. 1096, SEQ ID NO. 1105, SEQ ID NO. 1117, SEQ ID NO. 1140, SEQ ID NO. 1159, or SEQ ID NO. 1167.

Claim 2 (Amended):

An isolated polynucleotide that hybridizes to a *Chlamydia trachomatis* polynucleotide sequence comprising the sequence of SEQ ID NO. 1083, SEQ ID NO. 1089, SEQ ID NO. 1091, SEQ ID NO. 1095, SEQ ID NO. 1096, SEQ ID NO. 1105, SEQ ID NO. 1117, SEQ ID NO. 1140, SEQ ID NO. 1159, or SEQ ID NO. 1167, under conditions of high stringency, wherein said hybridizing polynucleotide sequence has at least 80% homology to the complementary sequence of SEQ ID NO. 1083, SEQ ID NO. 1091, SEQ ID NO. 1095, SEQ ID NO. 1096, SEQ ID NO. 1105, SEQ ID NO. 1117, SEQ ID NO. 1140, SEQ ID NO. 1159, or SEQ ID NO. 1167, or at least 99.9% homology to the complementary sequence of SEQ ID NO. 1089.

Claim 3 (Amended):

An isolated polynucleotide that hybridizes to a *Chlamydia trachomatis* polynucleotide sequence comprising the sequence of SEQ ID NO. 1083, SEQ ID NO. 1089, SEQ ID NO. 1091, SEQ ID NO. 1095, SEQ ID NO. 1096, SEQ ID NO. 1105, SEQ ID NO. 1117, SEQ ID NO. 1140, SEQ ID NO. 1159, or SEQ ID NO. 1167 under conditions of intermediate stringency, wherein said

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hybridizing polynucleotide sequence has at least 80% homology to the complementary sequence of SEQ ID NO. 1083, SEQ ID NO. 1091, SEQ ID NO. 1095, SEQ ID NO. 1096, SEQ ID NO. 1105, SEQ ID NO. 1117, SEQ ID NO. 1140, SEQ ID NO. 1159, or SEQ ID NO. 1167 or at least 99.9% homology to the complementary sequence of SEQ ID NO. 1089.

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Claim 8 (Amended):

A polynucleotide encoding a fusion protein, comprising one of ORF2 to ORF 1197 of Claim 1, 2 or 3 ligated in frame to a polynucleotide encoding a heterologous polypeptide.

Cancel claims 4-7.

Please add the following new claims:

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57. (new) The isolated polynucleotide sequence according to Claim 1, wherein said polynucleotide sequence is contained within the *Chlamydia trachomatis* genomic DNA in ECACC Deposit No. 98112618.

58. (new) The isolated polynucleotide sequence according to Claim 1, wherein said polynucleotide sequence is contained within a clone insert in ECACC Deposit No. 98112617.